

RAW SEQUENCE LISTING

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Application Serial Number: 10/575,121
Source: IFWP
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IFWP

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PATENT APPLICATION: US/10/575,121

DATE: 04/24/2006

TIME: 16:11:29

Input Set : A:\119-PCT1-US1.ST25.txt
 Output Set: N:\CRF4\04242006\J575121.raw

3 <110> APPLICANT: ELENA FEINSTEIN et al.
 5 <120> TITLE OF INVENTION: BONE MORPHOGENETIC PROTEIN (BMP) 2A AND USES THEREOF
 7 <130> FILE REFERENCE: 119/PCT1-US1
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/575,121
 C--> 10 <141> CURRENT FILING DATE: 2006-04-07
 12 <150> PRIOR APPLICATION NUMBER: 60/509279
 13 <151> PRIOR FILING DATE: 2003-10-07
 15 <160> NUMBER OF SEQ ID NOS: 67
 17 <170> SOFTWARE: PatentIn version 3.2
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 1547
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Homo sapiens
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 27 tgccccagcg gagcctgc tt cgcacatctcc gagccccacc gcccctccac tcctcggcct 120
 29 tgcccgacac tgagacgctg ttcccgacgt gaaaagagag actgcgcgcg cggcacccgg 180
 31 gagaaggagg aggcaaagaa aaggaacgga cattcgtcc ttgcgcagg tcctttgacc 240
 33 agagttttc catgtgacg ctcttcaat ggacgtgtcc ccgcgtgctt ctttagacgga 300
 35 ctgcggcttc ctaaaggctg accatggtgg ccgggacccg ctgtcttcta gcgttgctgc 360
 37 ttccccaggt ctcctggc ggcgcggctg gcctcgttcc ggagctggc cgcaggaagt 420
 39 tcgcggcggc gtcgtcggc cggccctcat cccagccctc tgacgagggtc ctgagcggagt 480
 41 tcgagttgcg gtcgtctcagc atgttgcggc tgaaacagag accccacccccc agcagggacg 540
 43 ccgtggtgcc cccctacatg ctagacctgt atgcaggca ctcaggtag ccgggctcac 600
 45 ccgcggcaga ccaccgggtg gagagggcag ccagccgagc caacactgtg cgcagcttcc 660
 47 accatgaaga atctttggaa gaactaccag aaacgagtgg gaaaacaacc cggagattct 720
 49 tcttaattt aagttctatc cccacggagg agtttatcac ctcagcagag cttcagggttt 780
 51 tccgagaaca gatgcaagat gctttagaa acaatagcag tttccatcac cgaattaata 840
 53 tttatgaaat cataaaacct gcaacagcca actcggaaatt ccccggtgacc agactttgg 900
 55 acaccagggtt ggtgaatcag aatgcaagca ggtggaaag ttttgcgttcc acccccgctg 960
 57 ttagtgcggtg gactgcacag ggacacgcca accatggatt cgtgggtggaa gtggcccaact 1020
 59 tggaggagaa acaagggtgc tcacaaggagac atgttaggat aagcagggtct ttgcaccaag 1080
 61 atgaacacag ctggtcacag ataaggccat tgctagtaac ttttggccat gatgaaaag 1140
 63 ggcatccctc ccacaaaaga gaaaaacgtc aagccaaaca caaacagccg aaacgcctta 1200
 65 agtccagctg taagagacac ctttgcgtac tggacttcag tgacgtgggg tggatgact 1260
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 69 tggctgatca tctgaactcc actaatcatg ccattgttca gacgtgggtc aactctgtta 1380
 71 actctaagat tccttaaggca tgctgtgtcc cgacagaact cagtgcatac tcgatgctgt 1440
 73 accttgcacga gaatgaaaag gttgtattaa agaactatca ggacatgggtt gtggagggtt 1500
 75 gtgggtgtcg ctatgtacgc aaaattaaat acataaatat atatata 1547
 78 <210> SEQ ID NO: 2
 79 <211> LENGTH: 396
 80 <212> TYPE: PRT

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81 <213> ORGANISM: Homo sapiens
83 <400> SEQUENCE: 2
85 Met Val Ala Gly Thr Arg Cys Leu Leu Ala Leu Leu Leu Pro Gln Val
86 1 5 10 15
89 Leu Leu Gly Gly Ala Ala Gly Leu Val Pro Glu Leu Gly Arg Arg Lys
90 20 25 30
93 Phe Ala Ala Ala Ser Ser Gly Arg Pro Ser Ser Gln Pro Ser Asp Glu
94 35 40 45
97 Val Leu Ser Glu Phe Glu Leu Arg Leu Leu Ser Met Phe Gly Leu Lys
98 50 55 60
101 Gln Arg Pro Thr Pro Ser Arg Asp Ala Val Val Pro Pro Tyr Met Leu
102 65 70 75 80
105 Asp Leu Tyr Arg Arg His Ser Gly Gln Pro Gly Ser Pro Ala Pro Asp
106 85 90 95
109 His Arg Leu Glu Arg Ala Ala Ser Arg Ala Asn Thr Val Arg Ser Phe
110 100 105 110
113 His His Glu Glu Ser Leu Glu Glu Leu Pro Glu Thr Ser Gly Lys Thr
114 115 120 125
117 Thr Arg Arg Phe Phe Asn Leu Ser Ser Ile Pro Thr Glu Glu Phe
118 130 135 140
121 Ile Thr Ser Ala Glu Leu Gln Val Phe Arg Glu Gln Met Gln Asp Ala
122 145 150 155 160
125 Leu Gly Asn Asn Ser Ser Phe His His Arg Ile Asn Ile Tyr Glu Ile
126 165 170 175
129 Ile Lys Pro Ala Thr Ala Asn Ser Lys Phe Pro Val Thr Arg Leu Leu
130 180 185 190
133 Asp Thr Arg Leu Val Asn Gln Asn Ala Ser Arg Trp Glu Ser Phe Asp
134 195 200 205
137 Val Thr Pro Ala Val Met Arg Trp Thr Ala Gln Gly His Ala Asn His
138 210 215 220
141 Gly Phe Val Val Glu Val Ala His Leu Glu Glu Lys Gln Gly Val Ser
142 225 230 235 240
145 Lys Arg His Val Arg Ile Ser Arg Ser Leu His Gln Asp Glu His Ser
146 245 250 255
149 Trp Ser Gln Ile Arg Pro Leu Leu Val Thr Phe Gly His Asp Gly Lys
150 260 265 270
153 Gly His Pro Leu His Lys Arg Glu Lys Arg Gln Ala Lys His Lys Gln
154 275 280 285
157 Arg Lys Arg Leu Lys Ser Ser Cys Lys Arg His Pro Leu Tyr Val Asp
158 290 295 300
161 Phe Ser Asp Val Gly Trp Asn Asp Trp Ile Val Ala Pro Pro Gly Tyr
162 305 310 315 320
165 His Ala Phe Tyr Cys His Gly Glu Cys Pro Phe Pro Leu Ala Asp His
166 325 330 335
169 Leu Asn Ser Thr Asn His Ala Ile Val Gln Thr Leu Val Asn Ser Val
170 340 345 350
173 Asn Ser Lys Ile Pro Lys Ala Cys Cys Val Pro Thr Glu Leu Ser Ala
174 355 360 365
177 Ile Ser Met Leu Tyr Leu Asp Glu Asn Glu Lys Val Val Leu Lys Asn

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Input Set : A:\119-PCT1-US1.ST25.txt
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187	<212> TYPE: DNA			
188	<213> ORGANISM: Homo sapiens			
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194	<210> SEQ ID NO: 4			
195	<211> LENGTH: 19			
196	<212> TYPE: DNA			
197	<213> ORGANISM: Homo sapiens			
199	<400> SEQUENCE: 4			
200	cagatgcaag atgctttag			19
203	<210> SEQ ID NO: 5			
204	<211> LENGTH: 19			
205	<212> TYPE: DNA			
206	<213> ORGANISM: Homo sapiens			
208	<400> SEQUENCE: 5			
209	gaactatatcaag gacatggtt			19
212	<210> SEQ ID NO: 6			
213	<211> LENGTH: 19			
214	<212> TYPE: DNA			
215	<213> ORGANISM: Homo sapiens			
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218	tgacgagaat gaaaagggtt			19
221	<210> SEQ ID NO: 7			
222	<211> LENGTH: 19			
223	<212> TYPE: DNA			
224	<213> ORGANISM: Homo sapiens			
226	<400> SEQUENCE: 7			
227	gtctgtacctt gacgagaat			19
230	<210> SEQ ID NO: 8			
231	<211> LENGTH: 19			
232	<212> TYPE: DNA			
233	<213> ORGANISM: Homo sapiens			
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236	cgacagaact cagtgttat			19
239	<210> SEQ ID NO: 9			
240	<211> LENGTH: 19			
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242	<213> ORGANISM: Homo sapiens			
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250	<212> TYPE: DNA			
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253 <400> SEQUENCE: 10
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257 <210> SEQ ID NO: 11
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262 <400> SEQUENCE: 11
263 ggggtgaaat gactggatt
266 <210> SEQ ID NO: 12
267 <211> LENGTH: 19
268 <212> TYPE: DNA
269 <213> ORGANISM: Homo sapiens
271 <400> SEQUENCE: 12
272 ccacaaaaga gaaaaacgt
275 <210> SEQ ID NO: 13
276 <211> LENGTH: 19
277 <212> TYPE: DNA
278 <213> ORGANISM: Homo sapiens
280 <400> SEQUENCE: 13
281 gcattccttc cacaaaaaga
284 <210> SEQ ID NO: 14
285 <211> LENGTH: 19
286 <212> TYPE: DNA
287 <213> ORGANISM: Homo sapiens
289 <400> SEQUENCE: 14
290 cttccaccat gaagaatct
293 <210> SEQ ID NO: 15
294 <211> LENGTH: 19
295 <212> TYPE: DNA
296 <213> ORGANISM: Homo sapiens
298 <400> SEQUENCE: 15
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302 <210> SEQ ID NO: 16
303 <211> LENGTH: 19
304 <212> TYPE: DNA
305 <213> ORGANISM: Homo sapiens
307 <400> SEQUENCE: 16
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311 <210> SEQ ID NO: 17
312 <211> LENGTH: 19
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314 <213> ORGANISM: Homo sapiens
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322 <212> TYPE: DNA
323 <213> ORGANISM: Homo sapiens
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Input Set : A:\119-PCT1-US1.ST25.txt
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326 gtaccttgac gagaatgaa 19
329 <210> SEQ ID NO: 19
330 <211> LENGTH: 19
331 <212> TYPE: DNA
332 <213> ORGANISM: Homo sapiens
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335 cgatgctgta ccttgacga 19
338 <210> SEQ ID NO: 20
339 <211> LENGTH: 19
340 <212> TYPE: DNA
341 <213> ORGANISM: Homo sapiens
343 <400> SEQUENCE: 20
344 ctagtcgat gctgtacct 19
347 <210> SEQ ID NO: 21
348 <211> LENGTH: 19
349 <212> TYPE: DNA
350 <213> ORGANISM: Homo sapiens
352 <400> SEQUENCE: 21
353 tcagtgctat ctcgatgct 19
356 <210> SEQ ID NO: 22
357 <211> LENGTH: 19
358 <212> TYPE: DNA
359 <213> ORGANISM: Homo sapiens
361 <400> SEQUENCE: 22
362 gaactcagtg ctagtcgat 19
365 <210> SEQ ID NO: 23
366 <211> LENGTH: 19
367 <212> TYPE: DNA
368 <213> ORGANISM: Homo sapiens
370 <400> SEQUENCE: 23
371 agaactcagtg gctatctcg 19
374 <210> SEQ ID NO: 24
375 <211> LENGTH: 19
376 <212> TYPE: DNA
377 <213> ORGANISM: Homo sapiens
379 <400> SEQUENCE: 24
380 ctctaagatt cctaaggca 19
383 <210> SEQ ID NO: 25
384 <211> LENGTH: 19
385 <212> TYPE: DNA
386 <213> ORGANISM: Homo sapiens
388 <400> SEQUENCE: 25
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392 <210> SEQ ID NO: 26
393 <211> LENGTH: 19
394 <212> TYPE: DNA
395 <213> ORGANISM: Homo sapiens
397 <400> SEQUENCE: 26
398 ctaaaggcatc ttgcacatcg 19

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/575,121

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Input Set : A:\119-PCT1-US1.ST25.txt

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L:9 M:270 C: Current Application Number differs, Replaced Current Application Number

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date